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8	4117.03 (Class V)	Fine Limestone					100	90-100					0-30	
10	4119, 4120.02, 4120.03 (C gravel)	Granular Surface			100			50-80	25-60					3, 11
11	4119, 4120.02, 4120.04, 4120.05, 4120.07 (A, B Cr. St.)	Granular Surface & Shoulder		100	95-100	70-90		30-55	15-40				6-16	4, 5, 11
12a	4121 (Cr. St.)	Granular Subbase	100			40-80			5-25				0-6	6, 11
12b	4121 (Cr. Gravel)	Granular Subbase	100			50-80			10-30		5-15		3-7	7, 11
13	4122.02 (Cr. St.)	Macadam St. Base	75 mm no	minal maxir	num size scr	eened over 19	9 mm or 25 m	m screen.				•		
14	4123	Modified Subbase	100		70-90				10-40				3-10	5, 7, 11
19	4125 (12.5mm Cr. Gr. or Cr. St.)	Cover Aggregate			100	97-100	40-90	0-30	0-15				0-2	11
20	4125 (12.5mm Scr. Gr.)	Cover Aggregate			100	95-100	40-80	0-15	0-7				0-1.5	11
21	4125 (9.5mm)	Cover Aggregate				100	90-100	10-55	0-20	0-7			0-1.5	11
22	4124.02B	Fine Slurry Mixture					100	85-100	40-95	20-60	14-35	10-25	5-25	9, 11
23	4124.02B (Cr. St.)	Coarse Slurry Mixture					100	70-90	40-70	19-42			5-15	11
29	4131	Porous Backfill			100	95-100	50-100	0-50	0-8					11
30	4132.02 (Cr. St.)	Special Backfill	100						10-40				0-10	5, 11
31	4132.03 (Gravel)	Special Backfill		100	90-100	75-100			30-55				3-7	11
32	4133 (Sand/Gr./Cr. St.)	Granular Backfill	100% passing the 76.2 mm screen 10-100 0-						0-10	8, 11				
35	4134 (Natural Sand/Gr.)	Floodable Backfill	100						20-90				0-4	11
36	41334 (Natural Sand)	Floodable Backfill							100				0-2	11

Notes: (Gradations No. 2, 9, 15, 16, 17, 18, 24, 25, 26, 27, 28, 33, and 34 have been deleted)

- 2. When used in precast and prestressed concrete bridge beams, 100% shall pass the 25 mm sieve. When used for pipe bedding the 75µm restriction does not apply.
- 3. When compaction of material is a specification requirement, the minimum percent passing the 75 µm sieve is 6%.
- 4. See specifications for combination of gravel and limestone.
- 5. Unwashed air dried samples of crushed composite material shall be tested for gradation compliance except that no gradation determination will be made for material passing the 75 µm sieve.
- 6. The gradation requirement for the 2.36 mm sieve shall be 5% to 20% when recycled material is supplied.
- 7. For Section 4121 gravel, one fractured face on 30% or more of the particles retained on the 9.5 mm sieve. For Section 4123 gravel, one fractured face on 75% or more of the particles retained on the 9.5 mm sieve.

<sup>1.</sup> For Section 4110, when the fine aggregate is sieved through the following numbered sieves - 4.75 mm, 2.36 mm, 1.18 mm, 600 μm, 300 μm, and 150 μm - not more than 40% shall pass one sieve and be retained on the sieve with the next higher number.

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- 8. Crushed stone shall have 100% passing the 37.5 mm sieve.
- 9. Gradation limitations for the (600 µm, 300 µm, and 150 µm) sieves shall not apply when slurry mixture is applied by hand lutes such as for slurry leveling.
- 10. Maximum of 2.5% passing the 75 µm sieve allowed if generated from the parent material for crushed limestone or dolomite when documented production is 1% or less as determined by the Office of Materials.
- 11. When Producer gradation test results are used for acceptance, test results representing at least 90% of the material being produced shall be within the gradation limits and the average of all gradation results shall be within the gradations limits. Stockpiled material not meeting the criteria may, at the District Materials Engineer's discretion, be resampled using Materials I.M. 301 procedures. One hundred percent of the stockpile quality control and verification test results shall be within the gradation limits.